Coronary Heart Disease

Disease Information Packets – Slide Sets



Public Health Services,
Community Health Statistics
8/2010



What is Coronary Heart Disease?

- Coronary heart disease (CHD) is the most common heart condition under the broad description of heart disease in the United States.
- Caused by atherosclerosis –
 narrowing of the small blood
 vessels that supply blood and
 oxygen to the heart due to plaque
 (fatty deposits).
 - Impaired blood flow can cause death of the heart muscle from lack of oxygen.
- CHD can also cause:
 - Heart Attack
 - Heart Arrhythmia (irregular heartbeat)
 - Heart Failure
 - Sudden Cardiac Death





Demographic Risk Factors

- Age
 - About 82% of people who die from CHD are 65 or older. (AHA)
- Gender
 - Men are more likely than women to have CHD.
- Heredity/Genetic factors
 - Risk of CHD increases 2-3 times if a close relative has the disease. (Scheuner, 2006)
- Race/ethnicity
 - Blacks and Hispanics are at a higher risk for developing CHD than Whites.
- Socio-economic Status
 - Those of low socio-economic status are at a higher risk for developing CHD than those of high socio-economic status.



Behavioral and Social Risk Factors

High blood pressure

 B.P. ≥ 140 mmHg/90 mmHg increases the risk of CHD.

High blood cholesterol

In 2007, about 37 million
 American adults had high cholesterol.

Diabetes Mellitus

 At least 65% of people with diabetes die from heart or blood vessel disease.





Behavioral and Social Risk Factors

- Sedentary lifestyle / Obesity
 - Obesity is a major risk factor for CHD. (AHA)
 - About 66% of Americans over the age of 20 were overweight or obese in 2007. (AHA)
- Tobacco use
 - Smoking cigarettes contributes to the development of atherosclerosis. (Surgeon General)

- The risks of CHD and sudden cardiac death are higher among

smokers than non-smokers. (Surgeon General)

- Poor nutrition
- Poor medical care
- Stress, depression



Intermediate Outcomes

- Stroke
 - A diseased heart increases the risk of stroke.
- Angina pectoris

Causes chest pain or discomfort from reduced blood supply to

the heart.

- High blood pressure
- High cholesterol
- Diabetes



National Statistics

- Nearly 4 out of 10 of American adults (18 years and older) had two or more risk factors for CHD in 2003. (Hayes, 2003)
- Each year over 1 million Americans suffer a heart attack and about half of them die as a result of the attack. (AHA)
- CHD was listed first in as the reason for 1,981,000 hospital discharges in 2004. (DHDSP)



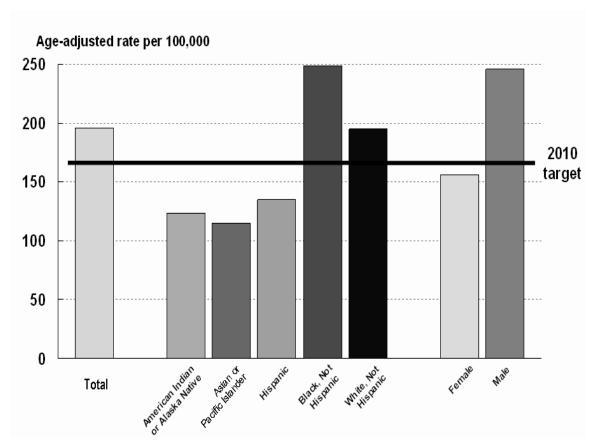
National Disparities

 Across the United States, death rates due to heart disease in 2006 were highest in Mississippi and lowest in Minnesota. Top 5 States with Highest Heart Disease Death Rates, United States, 2000-2006

- 1. Mississippi
- 2. Oklahoma
- 3. Alabama
- 4. West Virginia
- 5. Kentucky



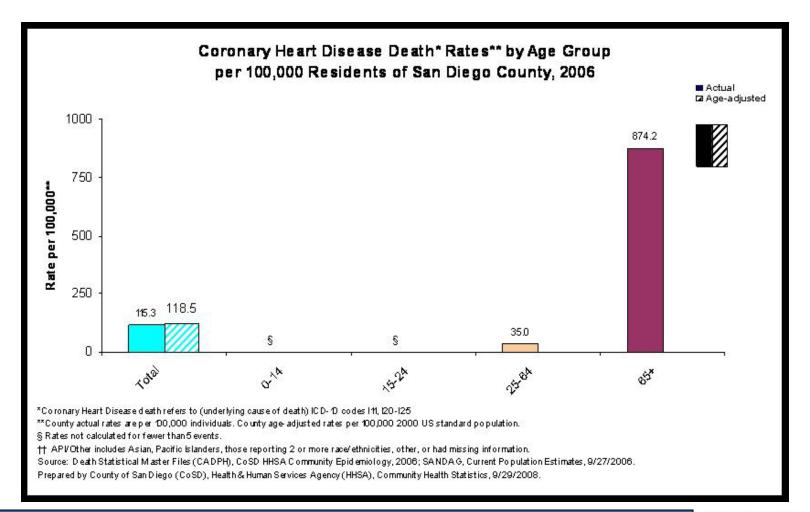
National Disparities



In 2000, the age-adjusted death rate from CHD was highest for blacks, followed by whites, and higher for men than women.

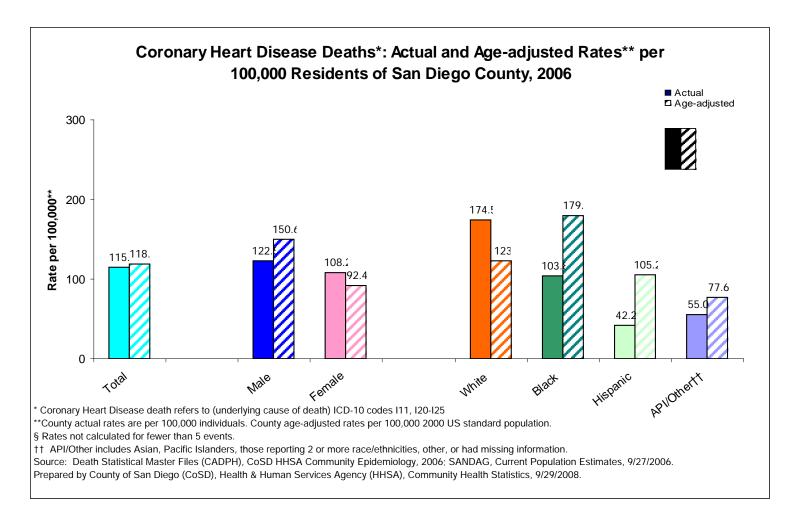


Local Statistics



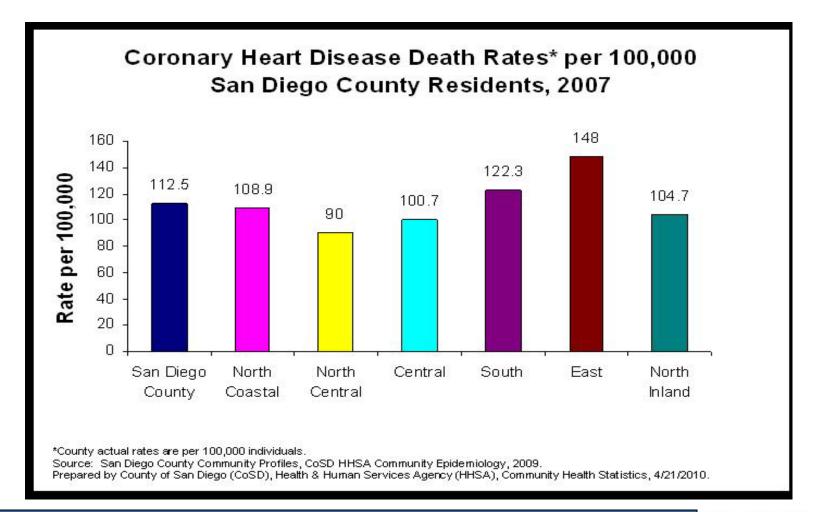


Local Statistics and Disparities



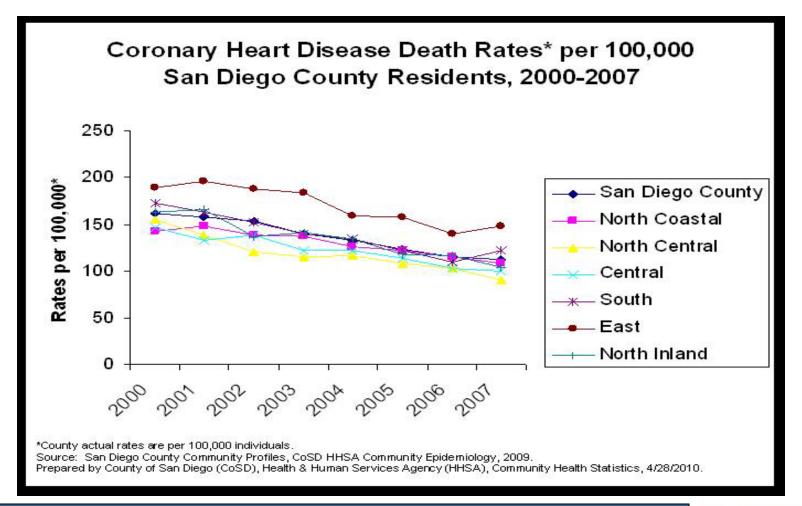


Local Statistics and Disparities





Local Statistics and Disparities





Disease Prevention

- Avoid smoking
- Be physically active
- Control weight
- Eat healthy foods
- Avoid excessive alcohol consumption
- See a doctor regularly to:
 - Monitor cholesterol level
 - Check blood pressure
 - Control diabetes





Know the 5 Major Symptoms of a Heart Attack

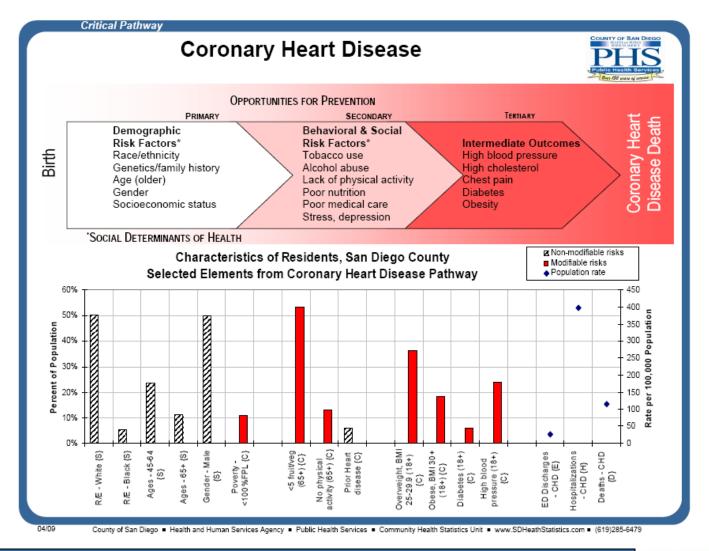
- 1. Pain or discomfort in the jaw, neck, or back
- 2. Feeling weak, light-headed, or faint
- 3. Chest pain or discomfort
- 4. Pain or discomfort in arms or shoulder
- 5. Shortness of breath

If you think that you or someone you know is having a heart attack, call 9–1–1 immediately.





Critical Pathway for Coronary Heart Disease





Contact Us

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Health and Human Services Agency
Public Health Services
Community Health Statistics
(619)285-6479

www.SDHealthStatistics.com

